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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/689,311	10/20/2003	See Taur Lee	TI-36130	2873	
23494 7	23494 7590 03/16/2005			EXAMINER	
TEXAS INST P O BOX 6554	TRUMENTS INCOR	CUNNINGHAM, TERRY D			
DALLAS, TX 75265			ART UNIT	PAPER NUMBER	
,			2816		

DATE MAILED: 03/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comment	10/689,311	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Terry D. Cunningham	2816				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any ' earned patent term adjustment. See 37 CFR 1.704(b).						
Status	,					
1) Responsive to communication(s) filed on 08 February 2005.						
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowar	ce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-39 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5)⊠ Claim(s) <u>12-29</u> is/are allowed.	5)⊠ Claim(s) <u>12-29</u> is/are allowed.					
6)⊠ Claim(s) <u>1-11 and 30-39</u> is/are rejected.	6)⊠ Claim(s) <u>1-11 and 30-39</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	:					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	examiner.				
Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Definition Disclosure Statement(s) (P10-1449 or P10/SB/08) Other:						

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DETAILED ACTION

Summary of changes in this action

1. The indefiniteness to claims 3, 6 and 7 has been overcome. However, now indefinite rejections are necessitated.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "programmable" "current limiter" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 and 30-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 9, the term "substantially" is a relative term which renders the claim indefinite. This term is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claims 2-11 are rejected for the reasons discussed above with claim 1.

Claims 30-39 are rejected for similar reasons as claims 1-11.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 and 30-39 are rejected under 35 U.S.C. 102(b) as being anticipated by Hur et al. (UPSN 6,201,436).

With respect to claims 1-11, Hur et al. disclose, in Fig. 1, a circuit comprising: "an input current (I1)"; "a first current limiter (31)"; "a second current limiter (20 and 32)"; and "a node (D)", all connected and operating similarly as recited by Applicant.

With respect to claims 30-39, clearly the above circuit to Hur et al. will provide the recited method.

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Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive.

Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. The reference Hur et al. makes clear that current I2 is eight times greater that I1 and that transistor 22 is the same size and transistor 14, thus current I3 mirrors current I2. Further, the current mirror comprising transistors 21 and 31 operates inversely proportional to temperature. Therefore, current I5 is equal to or less that I3 depending on temperature. In other words the I5 has "limit value" of eight times greater that I1. Further, I4 is disclosed as being a mirror or I1, therefore I5 has "limit value" of eight times greater that I4.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Allowable Subject Matter

Claims 12-29 are deemed allowable because none of the cited prior art reference teach

the wherein each of the "input current mirror", the "first current limiter" and the "second current

limiter" include all of the recited elements.

Conclusion .

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742.

The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for

the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC

March 10, 2005

Terry D. Cunningham

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Primary Examine

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